Jupiter Series 3.5-inch HDD

250GB/160GB

Balanced performance and power efficiency for desktop computing

Model	J9250 / J9250S	J9160 / J9160S
Disk/Head	1D / 2H	1D / 2H
Formatted Capacity	250GB	160GB
Interface	ATA-133 / SATA II	
Rotational Speed (RPM)	7200	
Cache buffer	8MB	
Idle power (watts)	3.3(PATA) / 3.6(SATA)	
Head Loading Technology	Ramp Load / Unload Technology	

Features:

- Excellent power efficiency provides up to 65% power savings compared to other hard drives of similar class.
- Built using the industry's most reliable Perpendicular Magnetic Recording technology.
- 250GB per platter technology design for increased product quality and performance.
- Ramp load/unload technology provides excellent anti-shock capability.
- Fluid dynamic bearing motor for less noise.
- S.M.A.R.T Command Transport (SCT) for Adaptive error correction.
- Thermal Flyheight Control(TFC) for improved reliability.
- Native Command Queuing for faster access.
- Internal Thermal Sensor to monitor the HDD temperature.
- RoHS compliant

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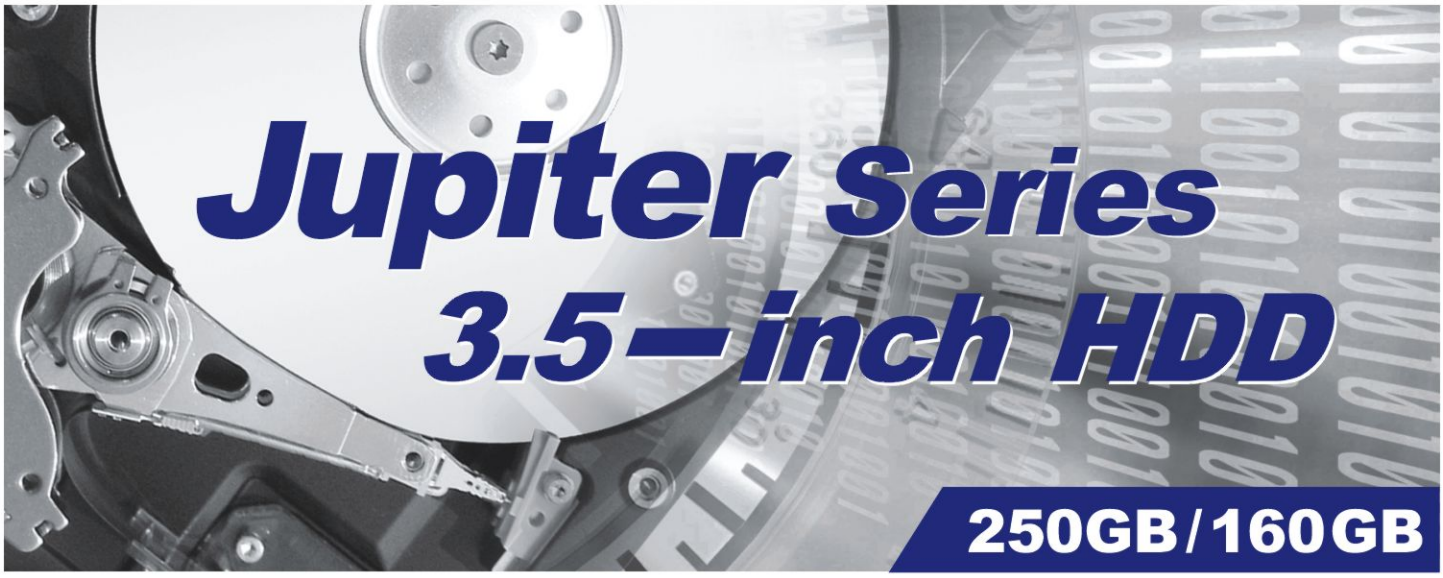

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Model Names

J9250/J9160(ATA-133)	J9250S/J9160S(SATA II)

Configuration

Interface	PATA/SATA
Capacity (GB)	250GB/160GB
Sector size (Bytes)	512
Data heads (Physical)	2/2
Data disks	1
Max.recording density(BPI)	1097K/970K
Track density(TPI)	168K/160K
Areal density(Gbits/sq-in)	185/155

Performance

Data buffer (Kbyte)	8,192
Rotational speed (RPM)	7,200
Media transfer rate(Max.Mbits/sec)	1138/1075
Interface transfer rate(Max.MB/sec)	133(PATA)/300(SATA)
Sustained data rate (Read,Max,MB/sec)	106/78
Seek time (Read, typical)*	
Average (ms)	14.0
Single track (ms)	0.8
Full stroke (ms)	27.0
Average latency (ms)	4.17

Reliability

Error rate (non-recoverable)	1in 10E14
Start/stops (at 40℃)	50K

Acoustic

Idle (Bels, Typical)	2.5
Operating (Bels, Typical)	2.7

Power

Requirement	+5 VDC (+/-5%),+12 VDC (+/-10%)	
Dissipation	PATA	SATA
Startup current (Max.A)	2.0(+12V),0.4(+5V)	2.0(+12V),0.5(+5V)
Idle (watts)	3.30	3.60
Random Read/Write (watts)	6.10	6.40
Standby Average (watts)	0.50	0.80
Sleep Average (watts)	0.50	0.80

Physical Dimensions & Weight

Height (mm)	26.1
Width (mm)	101.6
Depth (mm)	147
Weight (Max.g)	550

Environmental characteristics

Operating	
Temperature	0℃ to 60℃
Relative humidity (non-condensing)	8%to 90%
Max.wet bulb (non-condensing)	29.4℃
Shock (half sine wave,2 ms)	70G
Random Vibration(RMS)	0.67G rms(XY)
Non-operating	
Temperature	- 40℃ to 70℃
Relative humidity (non-condensing)	5%to 95%
Max.wet bulb (non-condensing)	35℃
Shock (half sine wave,2 ms)	350G
Random Vibration(RMS)	1.04G rms(XYZ)

* without command overhead, including settling

Note: One GB equals one billion bytes when referring to hard drive capacity. Accessible capacity may vary depending on operating environment and formatting.

Specifications subject to change

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